

CLAIMS

WHAT IS CLAIMED IS:

- 1 1. A display module for a handheld computer, comprising;
2 a display housing;
3 a display incorporated into the display housing;
4 an interface housing;
5 an interface configured to be removably coupled to the
6 handheld computer, the interface being incorporated into the interface
7 housing; and,
8 a memory.
- 1 2. The display module for a handheld computer of claim 1, wherein
2 the memory includes Secure Digital (SD) memory.
- 1 3. The display module for a handheld computer of claim 1, wherein
2 the interface is configured to be coupled to a slot in a housing of the
3 handheld computer.
- 1 4. The display module for a handheld computer of claim 1, wherein
2 the interface is configured to exchange data with a host device through
3 electrical interconnects.
- 1 5. The display module for a handheld computer of claim 1, wherein
2 the interface is configured to exchange data with a host device through an
3 optical data link.

1 6. The display module for a handheld computer of claim 1, wherein
2 the display module is powered by an internal battery.

1 7. The display module for a handheld computer of claim 1, wherein
2 the display module is configured to receive power from a host device
3 through the interface.

1 8. The display module for a handheld computer of claim 1, wherein
2 the interface housing is foldably connected to the display housing.

1 9. The display module for a handheld computer of claim 8, wherein
2 the display module is configured to be received by a host device when the
3 interface housing is folded behind the display housing.

1 10. The display module for a handheld computer of claim 8, wherein
2 the host device is selected from the group consisting of: mobile telephone,
3 game, toy, e-book, electronic projection device, camera, key fob or pendant,
4 MP3 player, control for home, control for vehicle, remote control for
5 entertainment system, digital sports assistant, pedometer, information
6 technology equipment, and watch.

1 11. The display module for a handheld computer of claim 8, wherein
2 the host device is a wearable device.

1 12. The display module for a handheld computer of claim 1, wherein
2 the display module further comprises a processing circuit selected from the
3 group consisting of: ASIC, microcontroller, microprocessor.

1 13. The display module for a handheld computer of claim 12,
2 further comprising at least one input/output device.

1 14. The display module for a handheld computer of claim 13,
2 wherein the at least one input/output device is selected from the group
3 consisting of: touch screens, buttons, dials, switches, and electro-audio
4 transducers.

1 15. The display module for a handheld computer of claim 6, wherein
2 the display module operates to display information when not coupled to a
3 host device.

1 16. The display module for a handheld computer of claim 1, wherein
2 the display module is configured to be coupled to a host device, the host
3 device being selected from the group consisting of: mobile telephone, game,
4 toy, e-book, electronic projection device, camera, key fob or pendant, MP3
5 player, control for home, control for vehicle, remote control for entertainment
6 system, digital sports assistant, pedometer, information technology
7 equipment, and watch.

1 17. The display module for a handheld computer of claim 1, further
2 comprising a display controller for controlling the display.

1 18. The display module for a handheld computer of claim 1, wherein
2 the memory is configured to store and retain data customized to the user.

1 19. An accessory module for a portable electronic device
2 comprising:
3 an accessory housing;
4 an interface for making electrical connection between the
5 accessory module and a host device; and,
6 an interface housing for supporting the interface,

7 wherein, the interface housing is hinged to the accessory
8 housing such that the interface housing can fold behind the accessory
9 housing and the interface housing can unfold to extend for insertion into an
10 interface slot in a portable electronic device.

1 20. The accessory module for a portable electronic device of claim
2 19, wherein the display module is configured when folded to be received
3 within a cavity provided within a host device, the host device being selected
4 from the group consisting of: mobile telephone, game, toy, e-book,
5 electronic projection device, camera, key fob or pendant, MP3 player, control
6 for home, control for vehicle, remote control for entertainment system,
7 digital sports assistant, pedometer, information technology equipment, and
8 watch.

1 21. The accessory module for a portable electronic device of claim
2 19, wherein the hinge includes a plurality of detents.

1 22. The accessory module for a portable electronic device of claim
2 19, wherein the interface housing is configured to fit a secure digital (SD)
3 slot.

1 23. A portable display module for coupling to a host device,
2 comprising:
3 a display housing;
4 a display coupled to the display housing;
5 an interface housing;
6 an interface configured to be removably coupled to the host
7 device, the interface being incorporated into the interface housing; and,
8 a memory.

1 24. The portable display module of claim 23, wherein the memory
2 includes Secure Digital (SD) memory.

1 25. The portable display module of claim 23, wherein the interface
2 is configured to be coupled to a slot in a housing of the handheld computer.

1 26. The portable display module of claim 23, wherein the interface
2 is configured to exchange data with a host device through electrical
3 interconnects.

1 27. The portable display module of claim 23, wherein the interface
2 is configured to exchange data with a host device through an optical data
3 link.

1 28. The portable display module of claim 23, wherein the display
2 module is powered by an internal battery.

1 29. The portable display module of claim 23, wherein the display
2 module is configured to receive power from a host device through the
3 interface.

1 30. The portable display module of claim 23, wherein the interface
2 housing is foldably connected to the display housing.

1 31. The portable display module of claim 30, wherein the display
2 module is configured to be received by a host device when the interface
3 housing is folded behind the display housing.

1 32. The portable display module of claim 30, wherein the host
2 device is selected from the group consisting of: mobile telephone, game,
3 toy, e-book, electronic projection device, camera, key fob or pendant, MP3

4 player, control for home, control for vehicle, remote control for entertainment
5 system, digital sports assistant, pedometer, information technology
6 equipment, and watch.

1 33. The portable display module of claim 30, wherein the host
2 device is a wearable device.

1 34. The portable display module of claim 23, wherein the display
2 module further comprises a processing circuit selected from the group
3 consisting of: ASIC, microcontroller, microprocessor.

1 35. The portable display module of claim 34, further comprising at
2 least one input/output device.

1 36. The display module for a handheld computer of claim 35,
2 wherein the at least one input/output device is selected from the group
3 consisting of: touch screens, buttons, dials, switches, and electro-audio
4 transducers.

1 37. The portable display of claim 28, wherein the display module
2 operates to display information when not coupled to a host device.

1 38. The portable display module of claim 23, wherein the display
2 module is configured to be coupled to a host device, the host device being
3 selected from the group consisting of: mobile telephone, game, toy, e-book,
4 electronic projection device, camera, key fob/pendant, MP3 player, control
5 for home, control for vehicle, remote control for entertainment system,
6 digital sports assistant, pedometer, information technology equipment, and
7 watch.

1 39. The portable display module of claim 23, further comprising a
2 display controller for controlling the display.

1 40. The portable display module of claim 23, wherein the memory is
2 configured to store and retain data customized to the user.